ALTERATIONS - HVAC

CEC-CF1R-ALT-04-E (Revised 06/14)

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE

Alterations - HVAC CZ 2, and 8-15 (formerly CF-1R-ALT-HVAC)

(Page 1 of 1)

Site Address:				Enfo	Enforcement Agency: Date Pre		Date Prep	ared:	Permit#:	
Equipment Type Ec		Equipment E	Equipment Efficiency		New Ducting, <i>Plenums, Lineset:</i> Required R-value		Conditione Floor Area		Thermostat	
☐ Packaged System	☐ Evaporator Coil	AFUE	СОР	□ R-	6 <i>(CZ 2, 8-13)</i> [Ducting	Served by	system	☐ Setback	
☐ Split System	☐ Condensing Unit			□ R-8	8 ¹ (CZ 11, 14, 1	15) Ducting	sqft	sqft	(If not already present, must be installed)	
☐ Mini Split	☐ Compressor ☐ Lineset	SEER			6 (<i>all CZ's</i>) Plen					
☐ Furnace	☐ TXV	EER		□ R-	5 or R7.5) Lines	set⁴			be installed)	
HERS VERIFICATION S	SUMMARY Installer de	termines work	to be completed	d and n	natches to one	of the options k	oelow. At p	permit ap	plication this	
form is allowed to be filled out by hand. For final inspection all forms are to be registered (no hand filled forms allowed) and a copy left on site.										
☐ 1. HVAC Changeou	Require	Required Compliance Documents to be left on site for Final:								
All Equipment,	CF1R-AL	CF1R-ALT-02-E								
Condenser Unit, Evap		CF2R: MECH-01, MECH-20-HERS, MECH-(23 or 24) ² -HERS, MECH-25-HERS ²								
Compressor, TXV, Line		CF3R: MECH-20-HERS, MECH-(23 or 24)-HERS ² , MECH-25-HERS ²								
Air Handler/Furnace ² (Can include new ducting)										
Installer Requirement: Duct leakage (< 15%, or < 10% to outside, or seal all accessible leaks), Air Flow ≥ 300 CFM/ton, Refrigerant Charge.										
Exempted from duct leakage testing if: 1. Duct system registered with HERS provider as previously sealed, or 2. There is less than 40 linear feet of duct in unconditioned space, or										
☐ 3. Existing duct systems are constructed, insulated or sealed with asbestos (list manufacture date of building)										
☐ 2. New HVAC System Required Compliance Documents to be left on site for Final:										
All new equipment ar		CF1R-ALT-02-E								
including Mini Split	CF2R: N	CF2R: MECH-01, MECH-20-HERS, MECH-22-HERS, MECH-(23 or 24)-HERS ² , MECH-25-HERS ²								
	CF3R: N	CF3R: MECH-20-HERS, MECH-22-HERS, MECH-(23 or 24)-HERS ² , MECH-25-HERS ²								
			Mini Splits require CF1R-ALT-02-E, CF2R-MECH-01, and (CF2R-CF3R) MECH-25-HERS							
Installer Requirement: Duct leakage ≤ 6%, Fan Efficacy (.58W/CFM), Air Flow ≥ 350 CFM/ton (or alternative), Refrigerant Charge										
☐ 3. All New Ducts with Replacement Required Compliance Documents to be left on site for Final:										
	ne or more of the follo	-ALT-02-E								
replaced: Condenser		CF2R: MECH-01, MECH-20-HERS, MECH-(23 or 24)-HERS, MECH-25-HERS								
Compressor, TXV, Line		CF3R: MECH-20-HERS, MECH-(23 or 24)-HERS, MECH-25-HERS								
Installer Requirement: Duct leakage ≤ 6%, Air Flow ≥ 350 CFM/ton (or alternative), Refrigerant Charge Exempted from duct leakage testing if: □ 1. Existing duct systems are constructed, insulated or sealed with asbestos										
☐ 4. New Ducting over 40 feet		Require	Required Compliance Documents to be left on site for Final:							
New ducting but less			T-02-E, CF2R: N		•	MECH-20-HERS	5			
Installer Required to: Duct leakage (<15% or, <10% to outside or, or seal all accessible leaks) ☐ EXCEPTION: Existing duct systems constructed, insulated or sealed with asbestos.										
¹ All new ducting R-8 required when more than 40 ft installed and R-6 when less than 40 ft installed. This includes in walls, between floors etc.										
² Heating only systems and Air Handler/Furnace changes do not require Air Flow MECH-(23 or 24), or Refrigerant Charge verification MECH-25										
³ All New Ducts is when at least 75 percent of the duct system is new duct material, and up to 25 percent may consist of reused parts from the										
dwelling unit's existing duct system (e.g., registers, grilles, boots, air handler, coil, plenums, duct material)										
⁴ R-5 (1" thick insulation) for linesets 1" and less. R-7.5 (1.5" thick insulation) for linesets over 1 inch. Most mfg will require Suction line Diameter										
with insulation as the following 1.5-2T-25/8", 2.5-3T-23/", 3.5 to 4T-23/8", 5T-43/8" Contractor (Decumentation Author's (Beginner's Decignor's Decignor's Statement)										
Contractor (Documentation Author's /Responsible Designer's Declaration Statement)										
I certify the following under penalty of perjury, under the laws of the State of California:										
 The information provided on this Certificate of Compliance is true and correct. I am eligible under Division 3 of the California Business and Professions Code to accept responsibility for the information on this document. 										
3. That the energy features and performance specifications for the design identified on this Certificate of Compliance conform to the										
requirements of Title 24, Parts 1 and 6 of the California Code of Regulations (CCR).										
4. That the energy features and performance specifications, materials, components, and manufactured devices for the building design or										
system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the CCR.										
5. The building design features or system design features identified on this Certificate of Compliance are consistent with the information										
provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement										
agency for approval with this building permit application.										
Responsible Designer Name	:	Responsible Design	ner Signature:			Date Signed:		License:		
Company :		Address:			City/State/Zip:		Phone:			